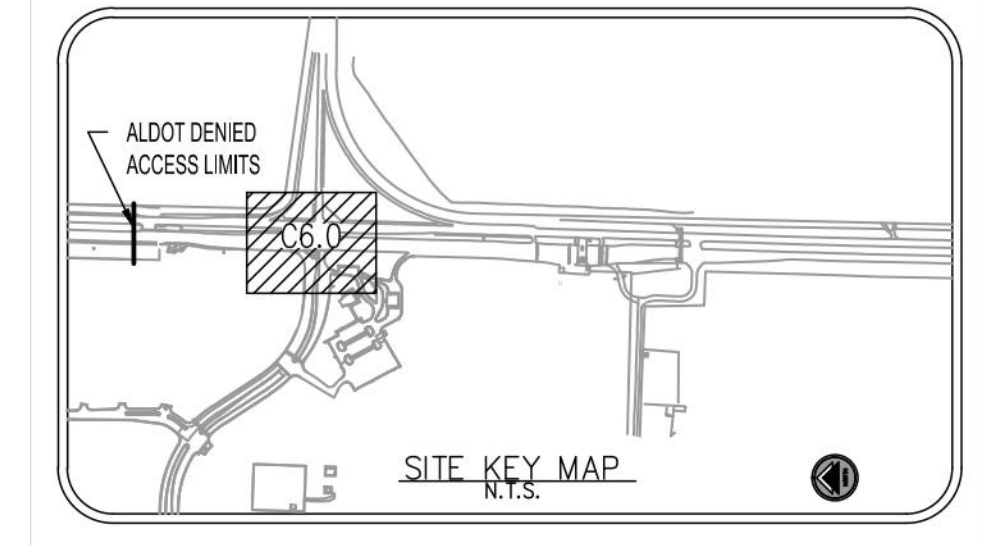
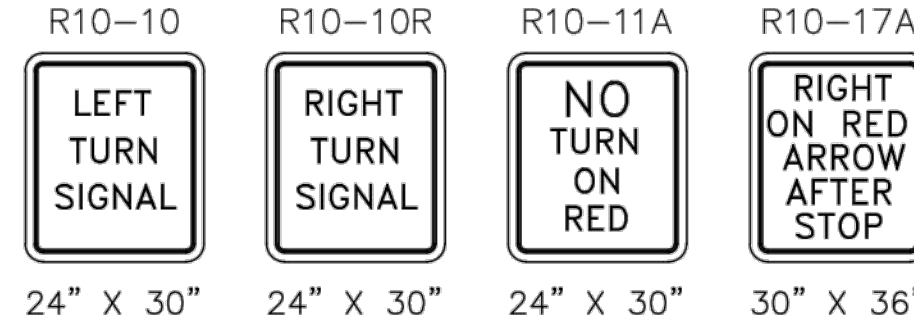


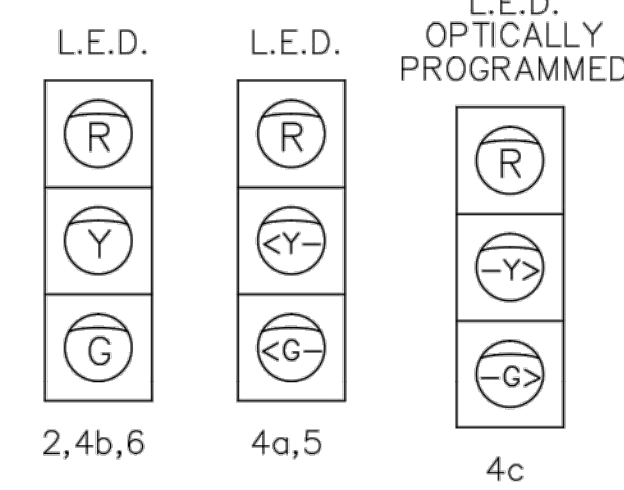
LOCAL CONTROLLER PROGRAMMING CHART													
PHASE	MIN INITIAL	PASSAGE	YELLOW	ALL RED	MAX 1	MAX 2	WALK	FDW	DENSITY ACTIVE	PED OMIT	MIN RECALL	PHASE OMIT	NON-LOCK
1													
2	15	2.3	4.7	1.8	60	60			N	Y	N	Y	ON
3									N	Y	N	Y	ON
4	15	2.0	3.6	3.5	30	30			N	Y	N	N	ON
5	6	2.0	4.7	3.5	25	25			N	Y	N	N	ON
6	15	2.3	4.7	1.8	60	60			N	Y	Y	N	OFF
7										Y	N	Y	ON
8										Y	N	Y	ON



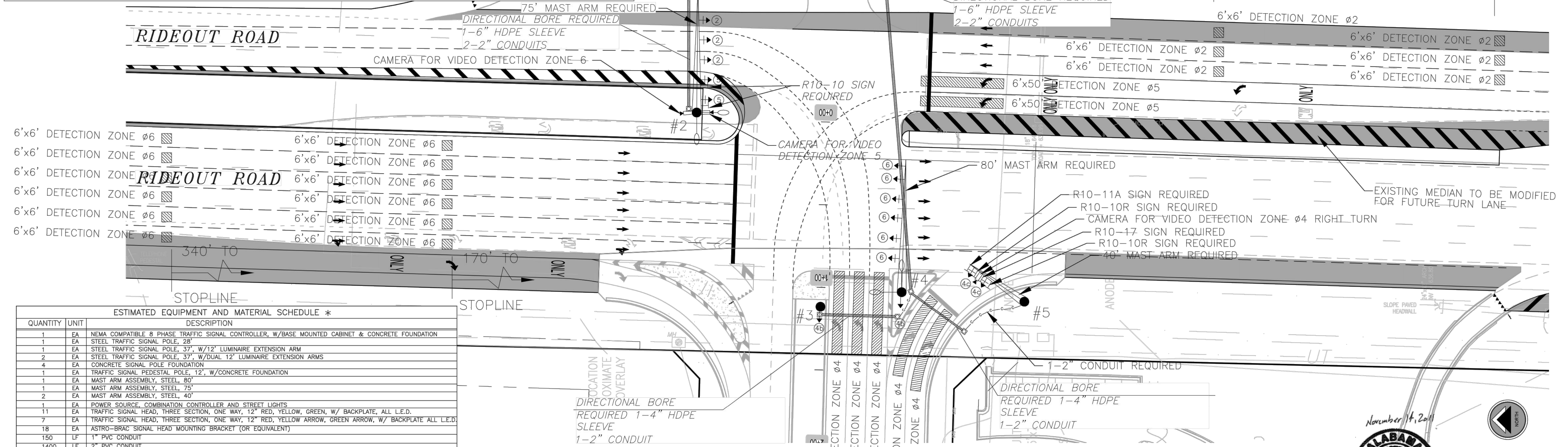
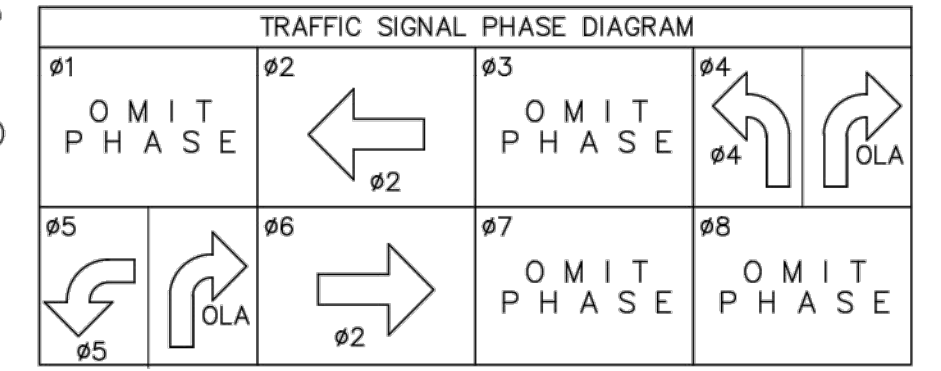
#### REQUIRED SIGNS



#### REQUIRED SIGNAL HEADS



NOTE: VIDEO DETECTION CAMERAS AND PROCESSORS PLACED INTO OPERATION AS A PART OF THE INTERIM TRAFFIC SIGNAL FOR THIS INTERSECTION SHALL BE RE-USED AS REQUIRED SEE SHEET C6.3.

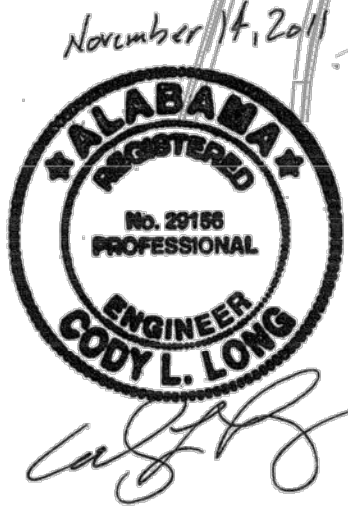
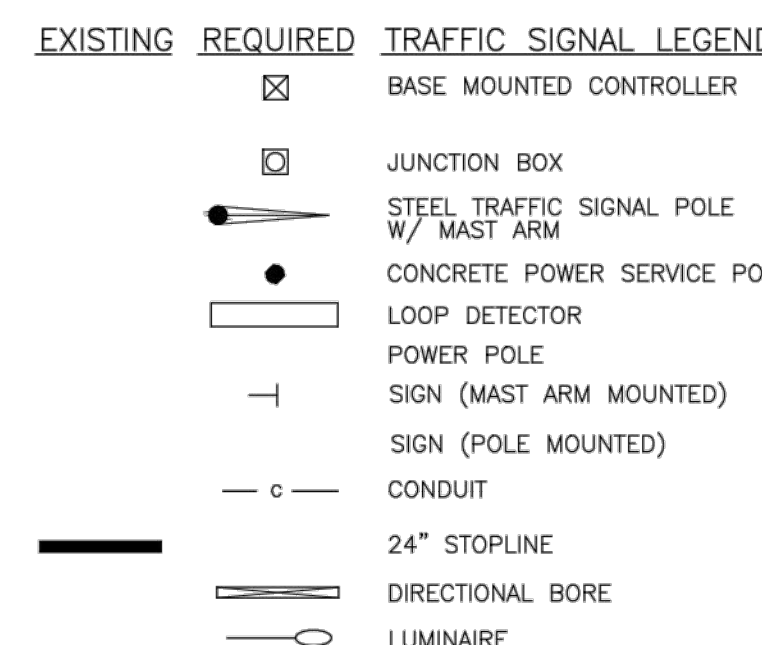


ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE *			DESCRIPTION
QUANTITY	UNIT		
1	EA		NEMA COMPATIBLE 8 PHASE TRAFFIC SIGNAL CONTROLLER, W/BASE MOUNTED CABINET & CONCRETE FOUNDATION
1	EA		STEEL TRAFFIC SIGNAL POLE, 37', W/12' LUMINAIRE EXTENSION ARM
2	EA		STEEL TRAFFIC SIGNAL POLE, 37', W/DUAL 12' LUMINAIRE EXTENSION ARMS
4	EA		CONCRETE SIGNAL POLE FOUNDATION
1	EA		TRAFFIC SIGNAL PEDESTAL POLE, 12', W/CONCRETE FOUNDATION
1	EA		MAST ARM ASSEMBLY, STEEL, 80'
1	EA		MAST ARM ASSEMBLY, STEEL, 75'
2	EA		MAST ARM ASSEMBLY, STEEL, 40'
1	EA		POWER SOURCE, COMBINATION CONTROLLER AND STREET LIGHTS
11	EA		TRAFFIC SIGNAL HEAD, THREE SECTION, ONE WAY, 12" RED, YELLOW, GREEN, W/ BACKPLATE, ALL L.E.D.
7	EA		TRAFFIC SIGNAL HEAD, THREE SECTION, ONE WAY, 12" RED, YELLOW ARROW, GREEN ARROW, W/ BACKPLATE ALL L.E.D.
18	EA		ASTRO-BRAC SIGNAL HEAD MOUNTING BRACKET (OR EQUIVALENT)
150	LF		1" PVC CONDUIT
1400	LF		2" PVC CONDUIT
100	LF		DIRECTIONAL BORE (4" CASING)
350	LF		DIRECTIONAL BORE (6" CASING)
1450	LF		40#14 SIGNAL CABLE
7	EA		JUNCTION BOX TYPE D
2	EA		SIGN R10-10, LEFT TURN SIGNAL, 24"x30", W/HARDWARE
5	EA		GE EVOLVE L.E.D. LIGHT FIXTURE (PART# ERS20FXE55725GRAY) (OR APPROVED ALTERNATE)
4	EA		VIDEO DETECTION CAMERA WITH MOUNTING BRACKET HARDWARE
4	EA		VIDEO DETECTION PROCESSOR, SINGLE CHANNEL
1200	LF		#16 AWG-3C CAMERA POWER CABLE
1200	LF		BELDEN 8281 COAXIAL CABLE (FOR CAMERA VIDEO)
2	EA		R10-10 SIGN, "LEFT TURN SIGNAL", 24"x24", MAST ARM MOUNTED W/ ASTRO BRAC HARDWARE (OR EQUIVALENT)
2	EA		R10-10R SIGN, "RIGHT TURN SIGNAL", 24"x24", MAST ARM MOUNTED W/ ASTRO BRAC HARDWARE (OR EQUIVALENT)
1	EA		R10-11A SIGN, "NO TURN ON RED", 24"x24", MAST ARM MOUNTED W/ ASTRO BRAC HARDWARE (OR EQUIVALENT)
1	EA		R10-17A SIGN, "RIGHT ON RED ARROW AFTER STOP", 24"x24", MAST ARM MOUNTED W/ ASTRO BRAC HARDWARE (OR EQUIVALENT)

SUPPORTING STRUCTURES				
POLE#	HEIGHT	MAST ARM LENGTH	LUMINAIRE ARM	COMMENTS
1	37 FT	40 FT	12 FT	
2	37 FT	75 FT	DUAL 12 FT	
3	12 FT	N/A	N/A	TRAFFIC SIGNAL PEDESTAL
4	37 FT	80 FT	DUAL 12 FT	
5	28 FT	40 FT	N/A	

#### PROJECT NOTES

- THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO DIGGING. A 48 HOUR NOTIFICATION IS REQUIRED BEFORE EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION ZONE TRAFFIC CONTROL FOR THOSE WORK ITEMS HE WILL UNDERTAKE AND TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL.
- PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY UNLESS OTHERWISE NOTED.
- BASE MAP INFORMATION PROVIDED BY LBYP.
- CONTRACTOR IS REQUIRED TO PROVIDE SIGNAL POLES PROPERLY SIZED FOR MAST ARM CONFIGURATION, NUMBER OF HEADS, AND SIGN LOADS.
- THE CONTRACTOR SHOULD NOTE THAT SPACING FOR JUNCTION BOXES IS NOT TO EXCEED 200 FEET.
- UNLESS OTHERWISE NOTED, ALL PRESENCE LOOPS SHALL EXTEND 3 FEET BEYOND THE STOP LINE.
- ALL SIGNAL HEADS ARE TO BE L.E.D.



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NOV 2011	1"=30'	TDC	CLL	SIGNALS.DWG

**LBYP**  
 Civil and Structural Engineers  
 Birmingham, Alabama  
 Atlanta, Georgia  
 Huntsville, Alabama  
 Tampa Bay, Florida  
 www.lbyp.com

LBYP Project Number  
**302-10-002A**  
 LBYP, Inc.  
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**HUNTSVILLE**  
 The Star of Alabama

## TRAFFIC SIGNAL DESIGN PLAN REDSTONE GATEWAY - PACKAGE 1E RIDEOUT ROAD INTERIM IMPROVEMENTS CITY OF HUNTSVILLE HUNTSVILLE, ALABAMA

NO.	DATE	DESCRIPTION	CHECKED	DATE	NO.	DATE	DESCRIPTION	CHECKED	DATE
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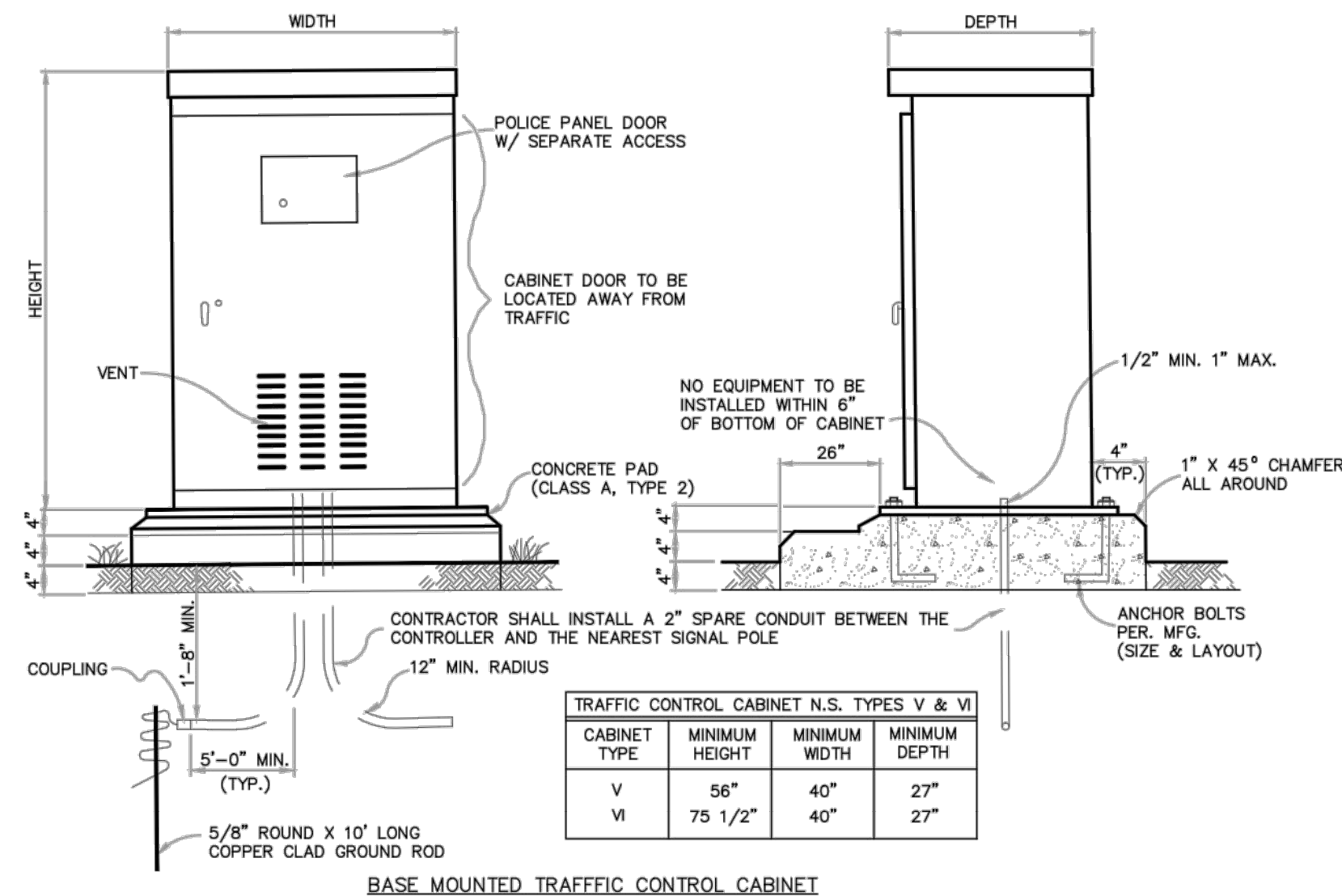
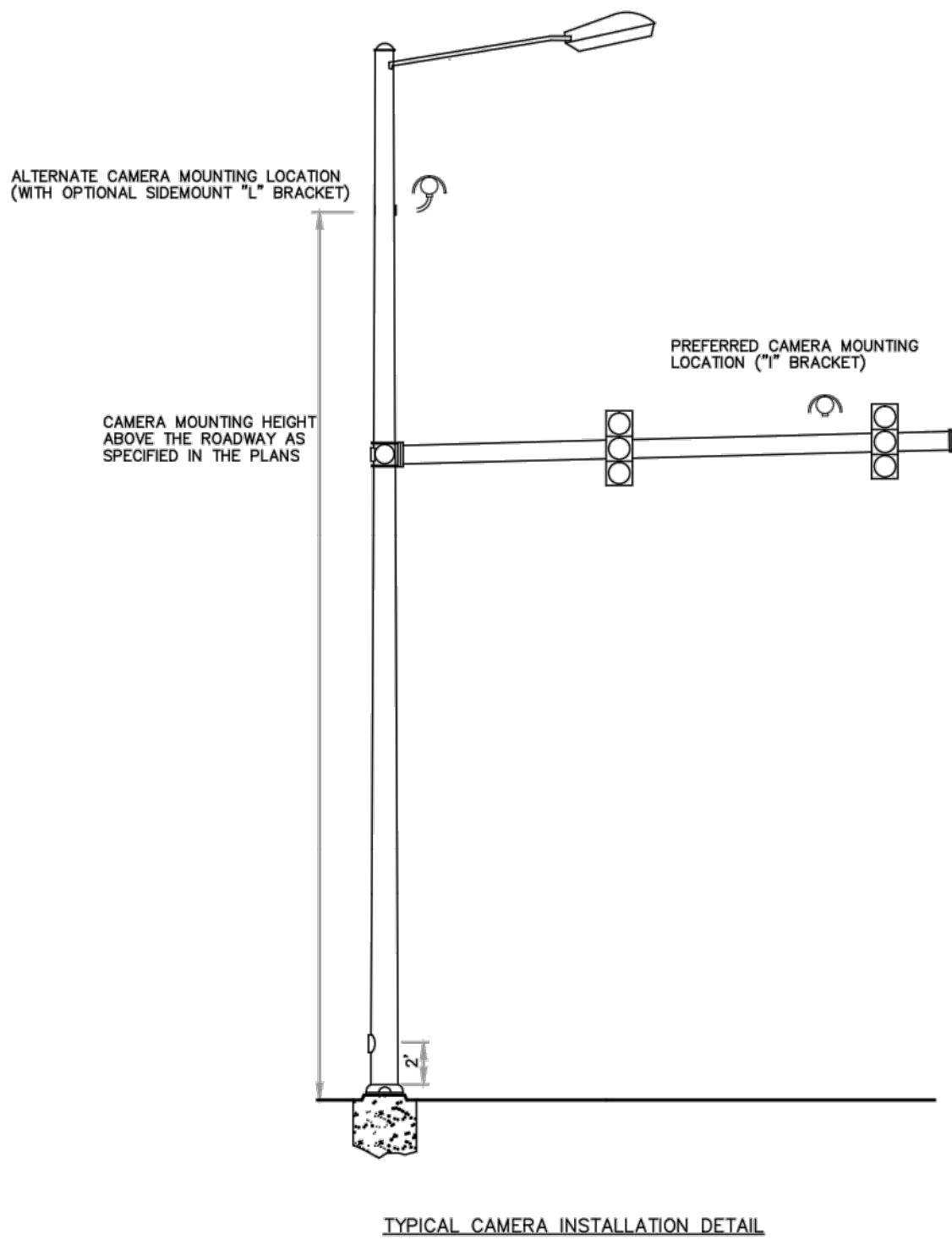
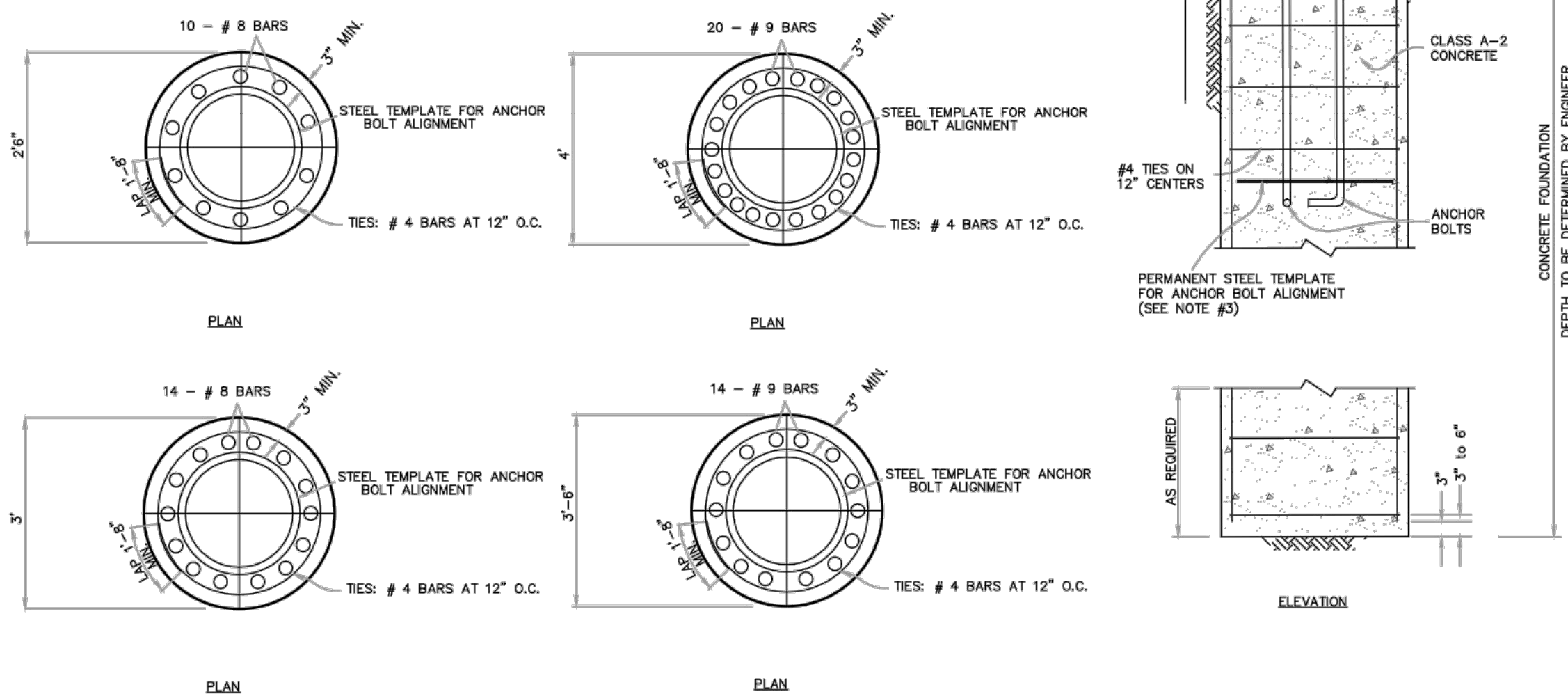


**C6.1**

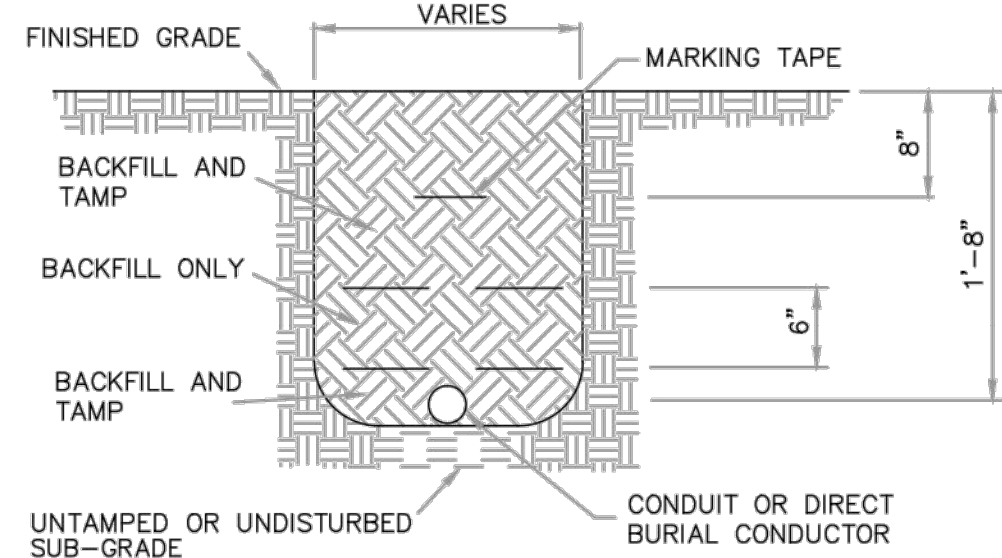
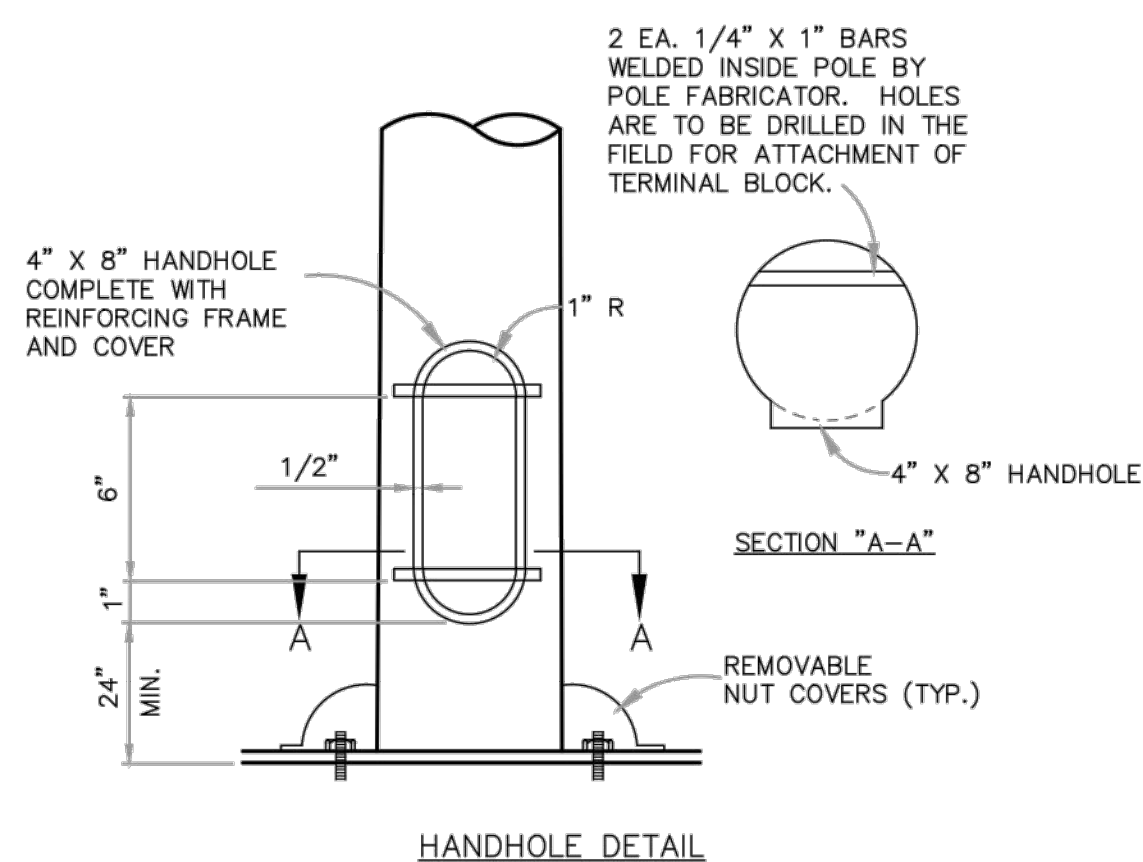


NOTES:

1. CONCRETE SHALL BE CLASS A TYPE 2A WITH A MINIMUM 28-DAY STRENGTH OF 3000 PSI.
2. ANCHOR BOLT ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED TRAFFIC SIGNAL FOUNDATION SHOP DRAWINGS.
3. PERMANENT STEEL TEMPLATES SHALL BE FROM 1/8" STEEL PLATE. ANCHOR BOLT HOLES SHALL BE OVERSIZED BY 1/8" AND SHALL HAVE A 1/4" CLEARANCE TO BOTH OUTSIDE AND INSIDE EDGES.
4. CONDUITS REQUIRED IN CONCRETE FOUNDATIONS SHALL BE ACCURATELY PLACED, ORIENTED IN THE PROPER DIRECTION TO ACCOMMODATE FUTURE EXTENSION AND SECURLY HELD IN PLACE TO AVOID MOVEMENT.
5. CONDUIT NUMBER AND SIZE AS REQUIRED BY THE PLANS.

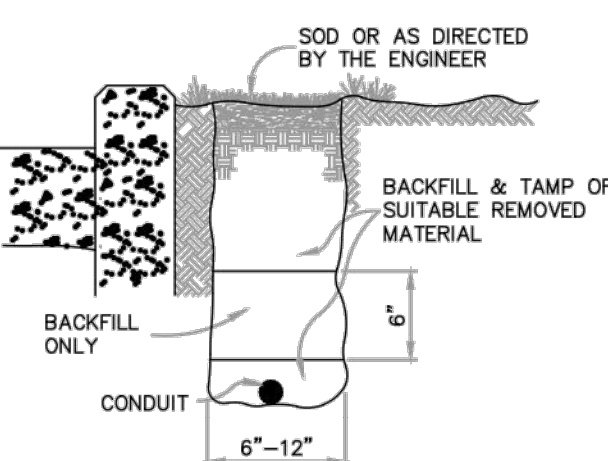
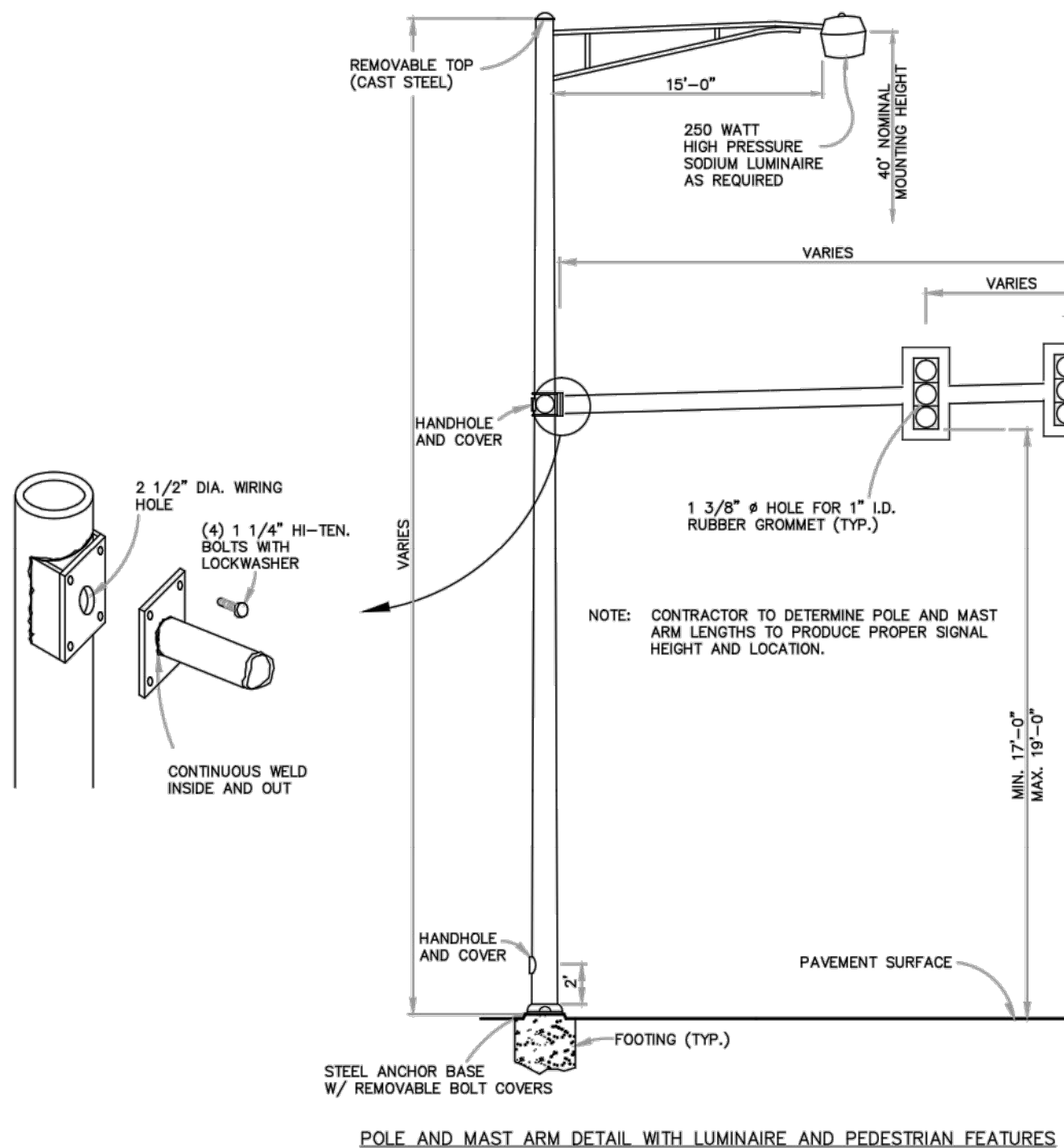


MAST ARM SIGNAL HEAD MOUNT

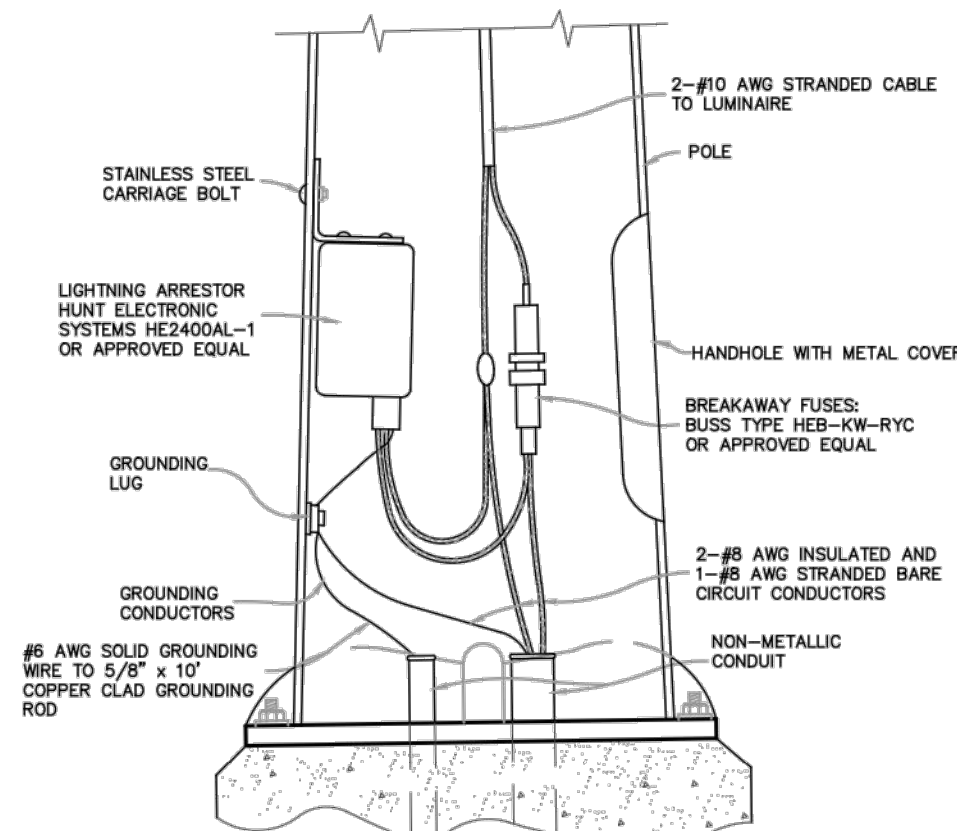


NOTE: BACKFILL WITH SUITABLE PORTION OF EXCAVATED MATERIAL FROM EXCAVATION OR SELECTED MATERIAL APPROVED BY THE ENGINEER.

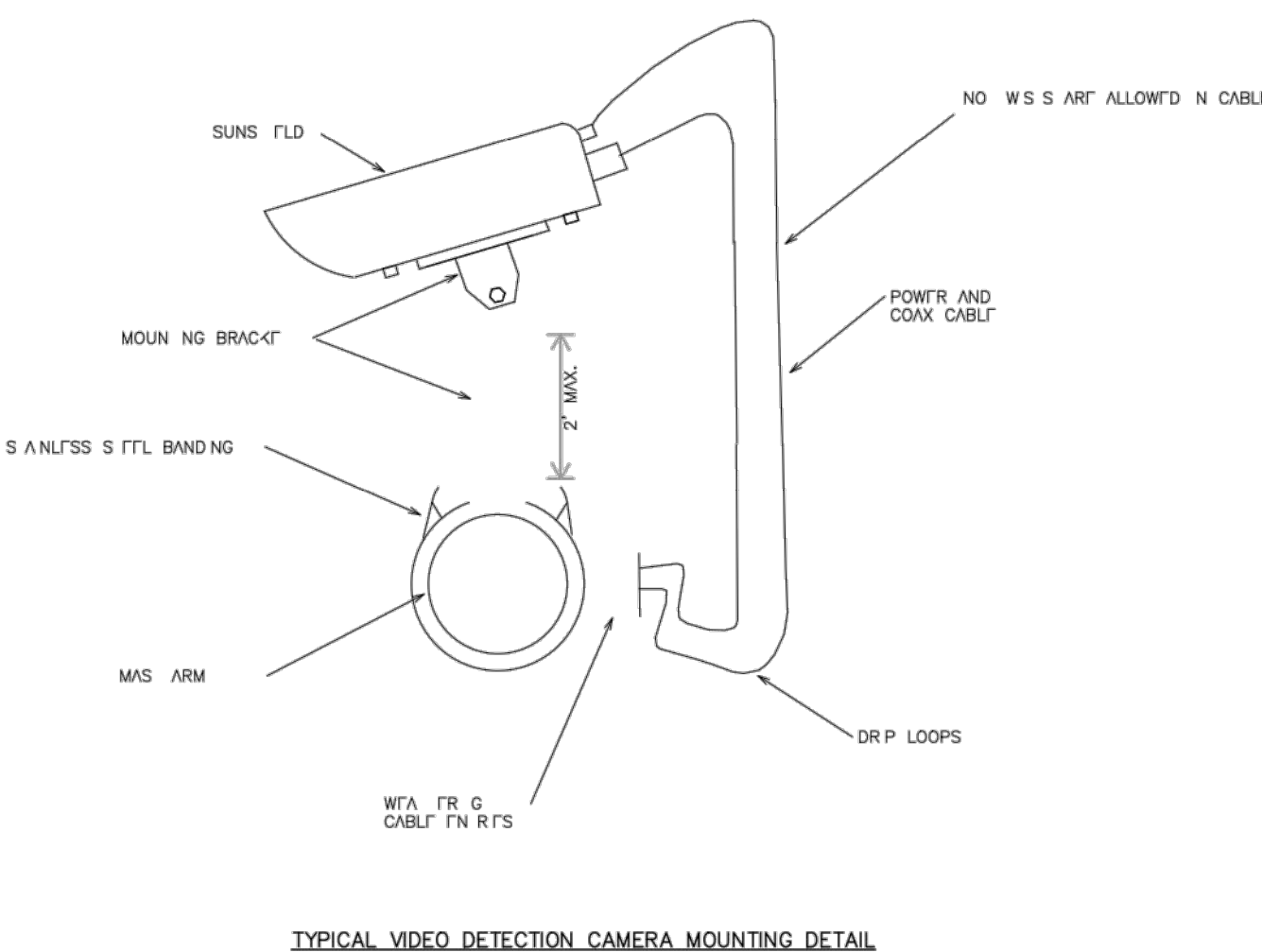
CONDUIT AND CONDUCTOR DETAIL  
(FOR USE AREA NOT EXPOSED TO VEHICULAR TRAFFIC)



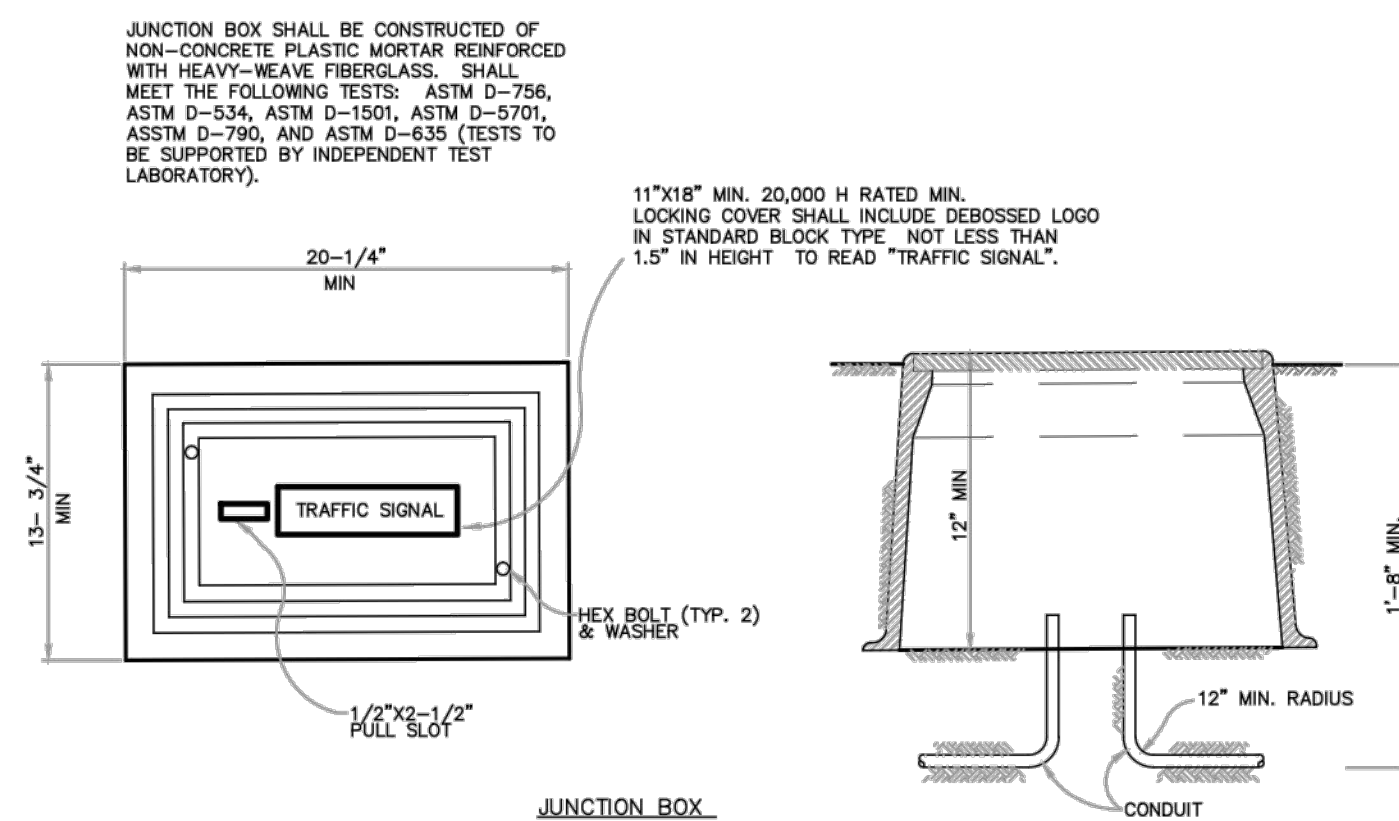
TYPICAL CONDUIT UNDER GRASS AREA



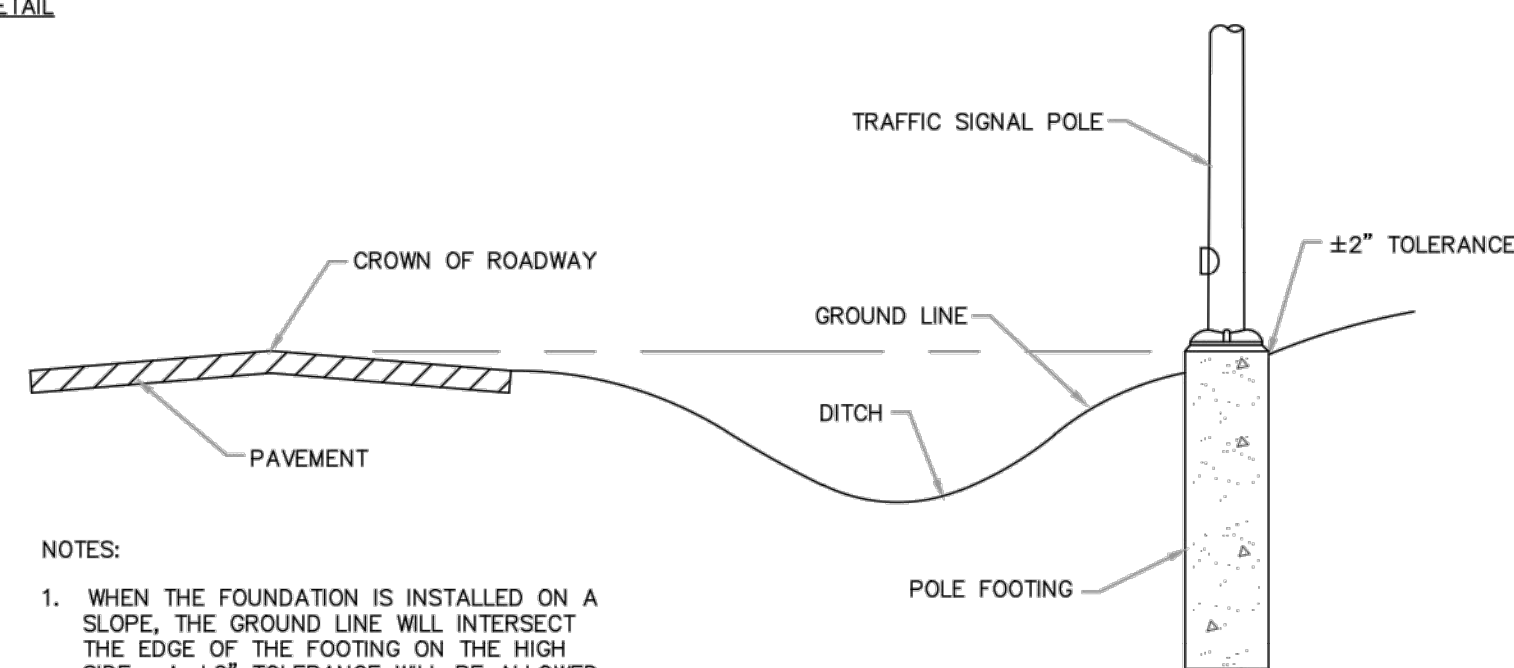
LIGHTNING ARRESTOR DETAILS FOR LUMINAIRE



TYPICAL VIDEO DETECTION CAMERA MOUNTING DETAIL

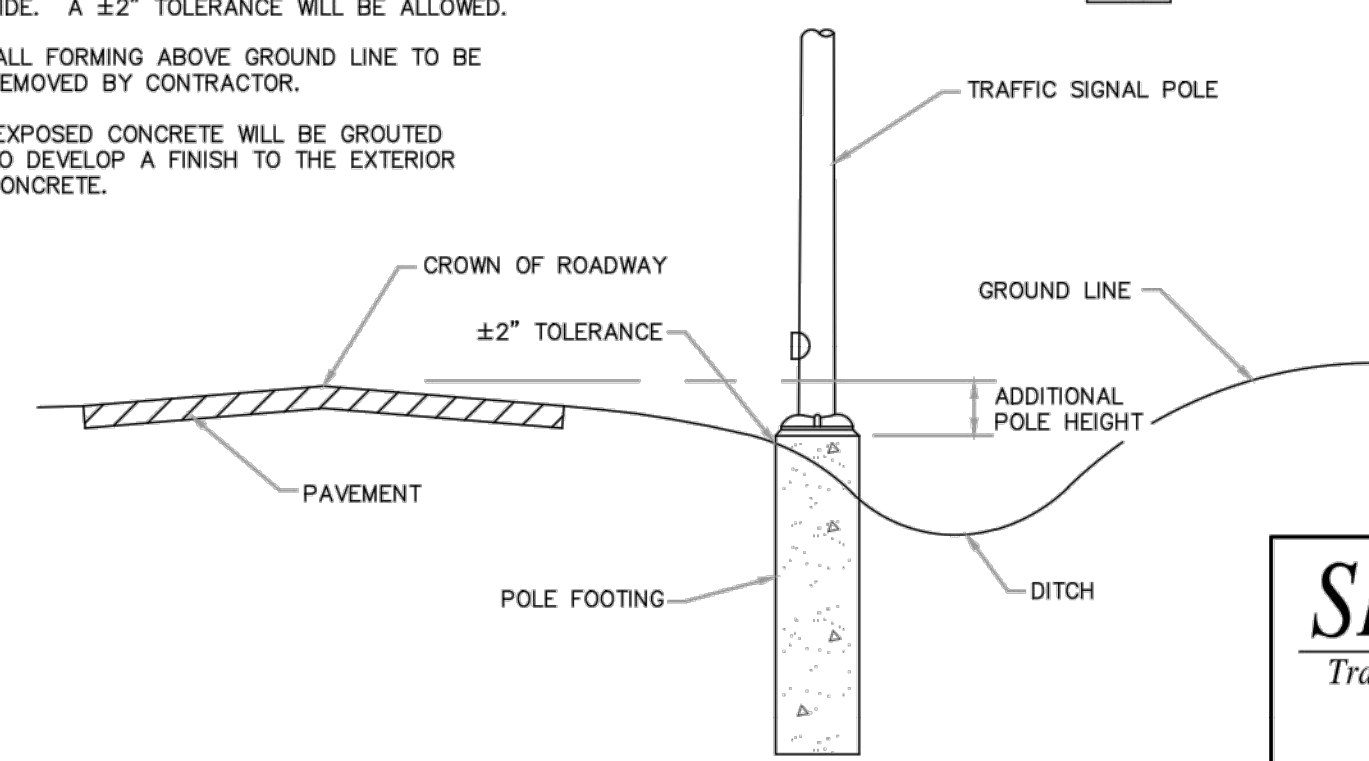


JUNCTION BOX

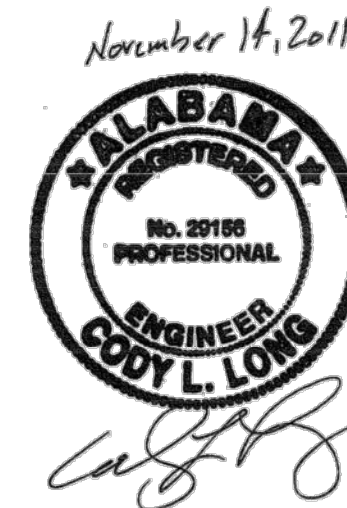


NOTES:

1. WHEN THE FOUNDATION IS INSTALLED ON A SLOPE, THE GROUND LINE WILL INTERSECT THE EDGE OF THE FOOTING ON THE HIGH SIDE. A ±2" TOLERANCE WILL BE ALLOWED.
2. ALL FORMING ABOVE GROUND LINE TO BE REMOVED BY CONTRACTOR.
3. EXPOSED CONCRETE WILL BE GROUTED TO DEVELOP A FINISH TO THE EXTERIOR CONCRETE.



POLE FOOTING LOCATION TOLERANCES



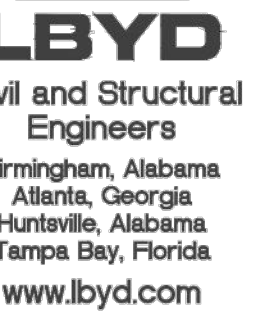
**SKIPPER Consulting, Inc.**  
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DATE	SCALE	DRAWN BY	CHECKED	FILE NAME
NOV 2011	NONE	TDC	CLL	SIGNALS.DWG

**TRAFFIC SIGNAL DETAILS**  
**REDSTONE GATEWAY - PACKAGE 1E**  
**RIDEOUT ROAD INTERIM IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**

REV	DATE	DESCRIPTION	CHECKED	DATE	FILE NAME
1	NOV 2011	NOVEMBER 14, 2011	CLL	NOVEMBER 14, 2011	SIGNALS.DWG





Project Number  
**302-10-002A**

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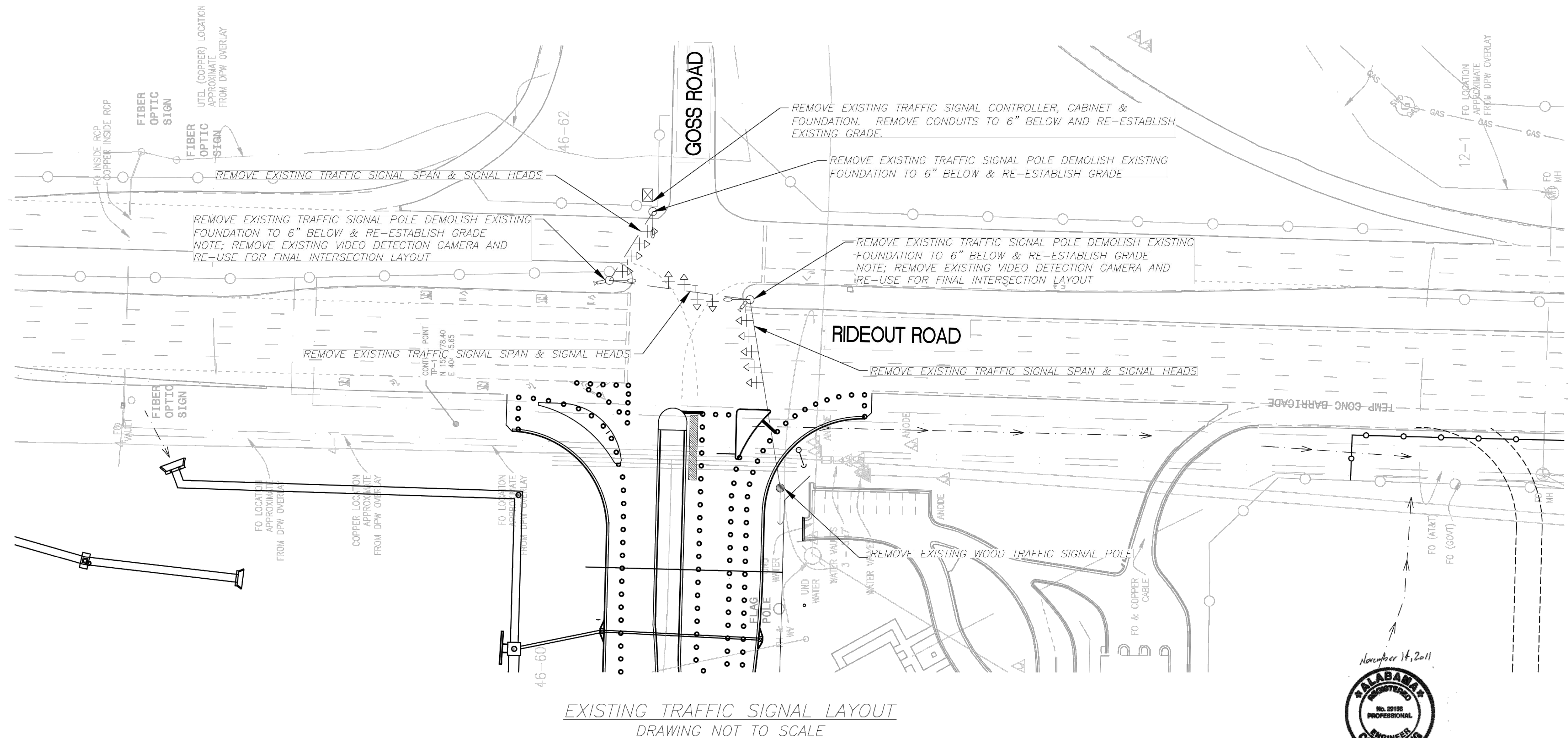
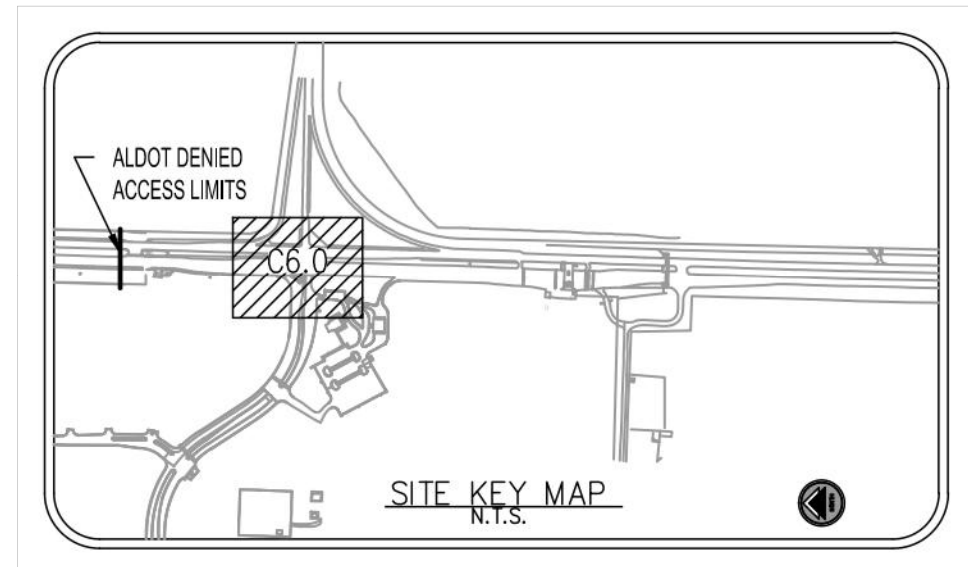


**REDSTONE GATEWAY - PACKAGE 1E**  
**RIIDEOUT ROAD INTERIM IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**

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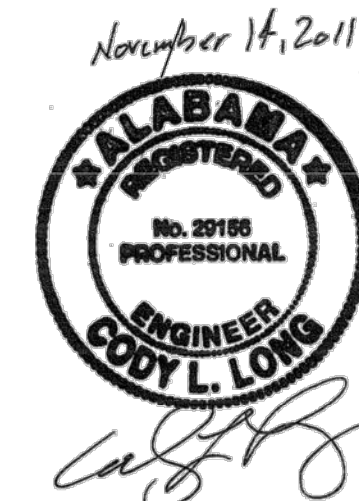
### C6.3

5 OF 51



TRAFFIC SIGNAL REMOVAL NOTES:

1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT IS THE PROPERTY OF THE REDSTONE ARSENAL. THE INSTALLER SHALL RETURN TRAFFIC SIGNAL POLES, CONTROLLER, CABINET, SIGNAL HEADS, AND ANY OTHER TRAFFIC SIGNAL EQUIPMENT AS REQUESTED TO A LOCATION SPECIFIED BY THE REDSTONE ARSENAL DPW.
2. THE TRAFFIC SIGNAL SHALL NOT BE TAKEN OUT OF SERVICE BETWEEN THE TIMES OF 6:00AM-9:00AM OR 4:00PM-6:00PM MONDAY-FRIDAY. THE INSTALLER MUST CONTACT REDSTONE ARSENAL DPW PERSONNEL PRIOR TO REMOVING THE TRAFFIC SIGNAL FROM SERVICE FOR APPROVAL AND TO COORDINATE ALTERNATE TRAFFIC CONTROL MEASURES.
3. FOR FINAL TRAFFIC SIGNAL INSTALLATION PLANS, SEE SHEET C6.0 (THIS PLAN SET).



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DATE NOV 2011	SCALE NONE	DRAWN BY TDC	CHECKED CLL	FILE NAME SIGNALS.DWG
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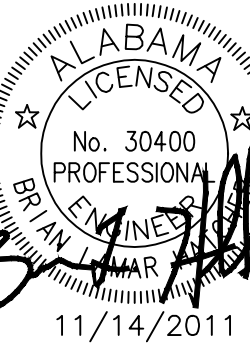


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Tampa Bay, Florida  
www.lbyd.com

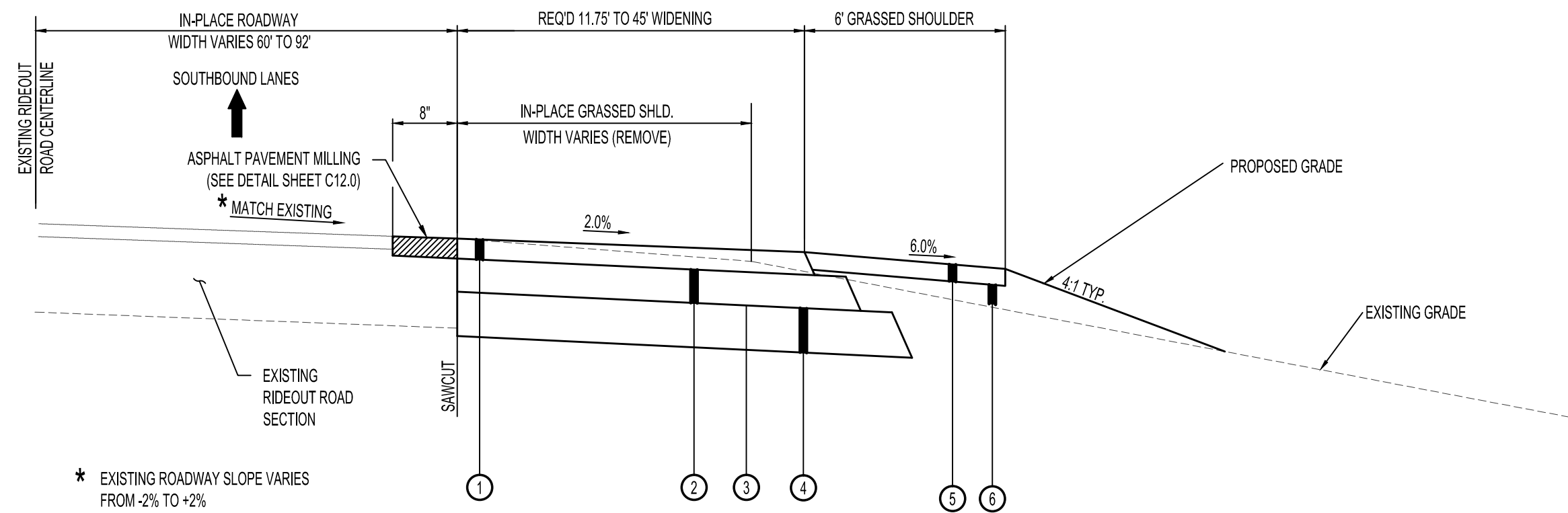
LBYP Project Number:  
**302-10-002A**

**LBYP, Inc.**  
305 Church Street SW  
Suite 719  
Huntsville, AL 35801  
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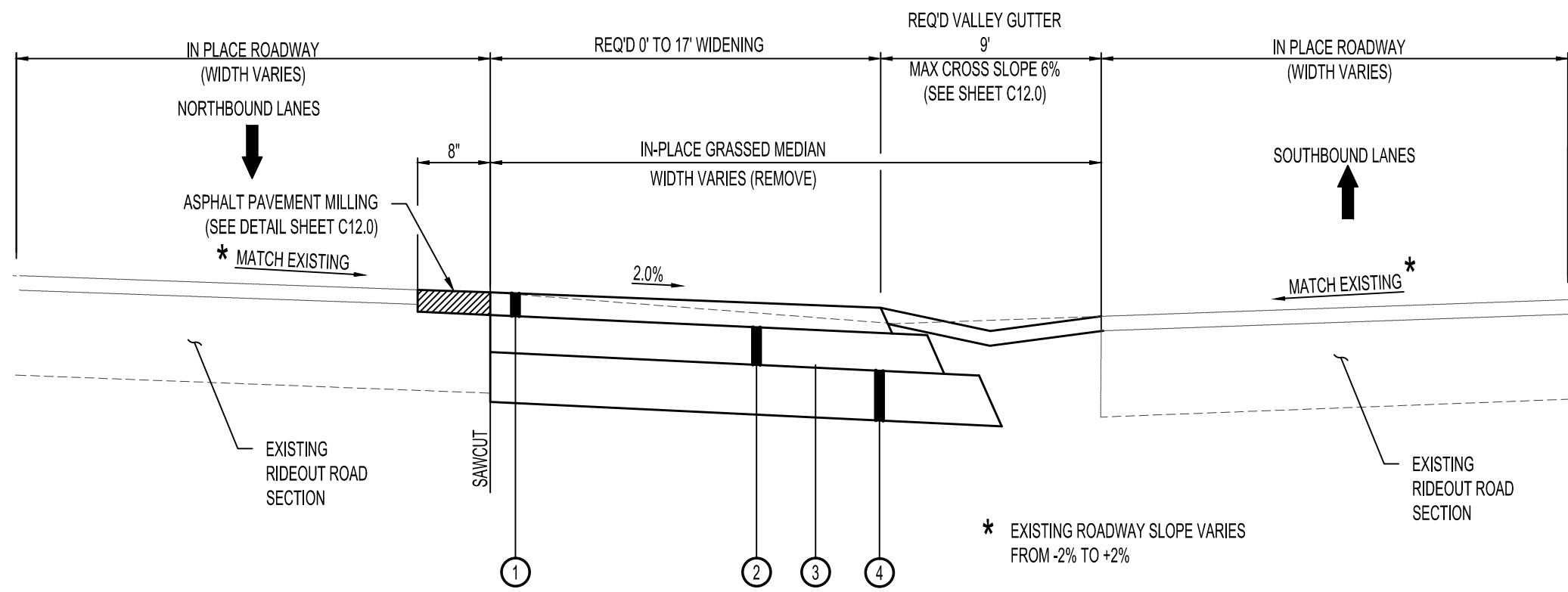
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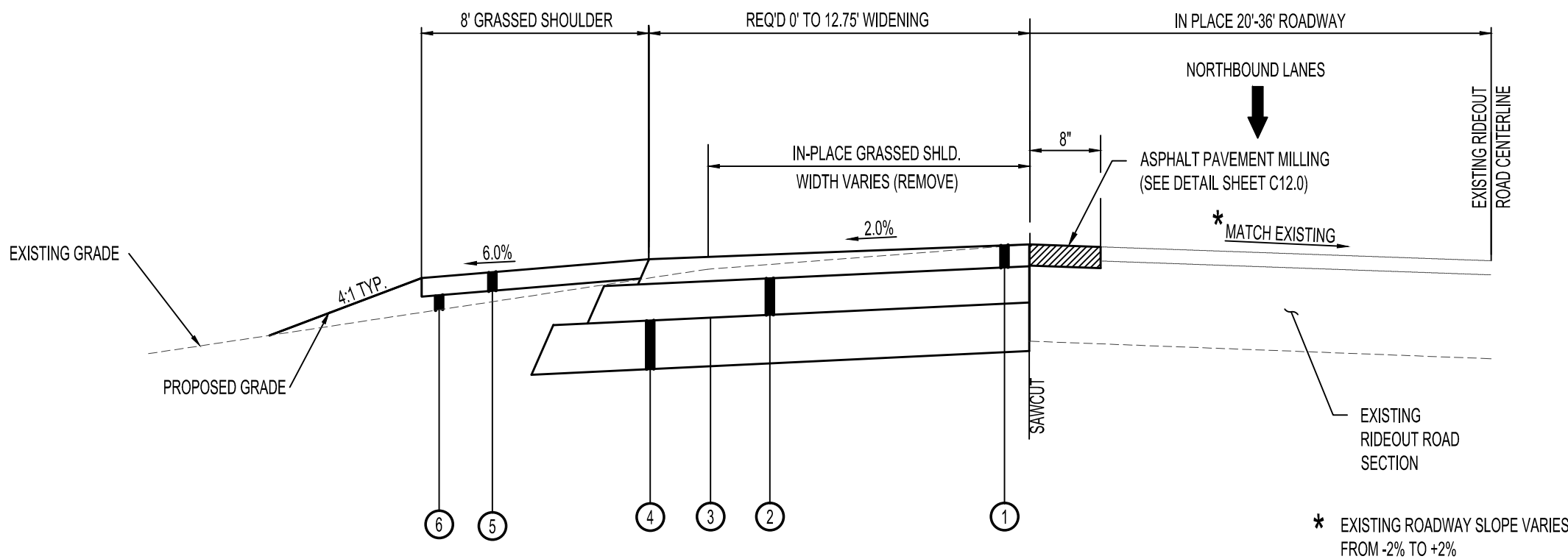
**RIDEOUT ROAD TYPICAL SECTIONS**  
**REDSTONE GATEWAY - PACKAGE 1E**  
**RIDEOUT ROAD INTERIM IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**



*RIDEOUT ROAD (SOUTHBOUND)*  
*STA 20+00.00 TO 35+49.00*



*RIDEOUT ROAD (NORTHBOUND MEDIAN WIDENING)*  
*STA 28+24.26 TO 33+67.00*



*RIDEOUT ROAD (NORTHBOUND THROUGH LANE)*  
*STA 25+56.00 TO 44+54.20*

**RIDEOUT ROAD REQUIRED MATERIALS LEGEND**

LEGEND ITEM	ITEM DESCRIPTION
①	424-A SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 165 LB/SY (1.5" THICK)
②	424-A SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER, 1" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 550 LB/SY (5.0" THICK)
③	405-A TACK COAT
④	825 8" CRUSHED AGGREGATE BASE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS (2 LAYERS), ALDOT SPEC 825.
⑤	650A-000 TOPSOIL (APPROXIMATELY 4" THICK) OR 650B-000 TOPSOIL FROM STOCKPILES (APPROXIMATELY 4" THICK)
⑥	210A-000 UNCLASSIFIED EXCAVATION OR 210D-000 BORROW EXCAVATION

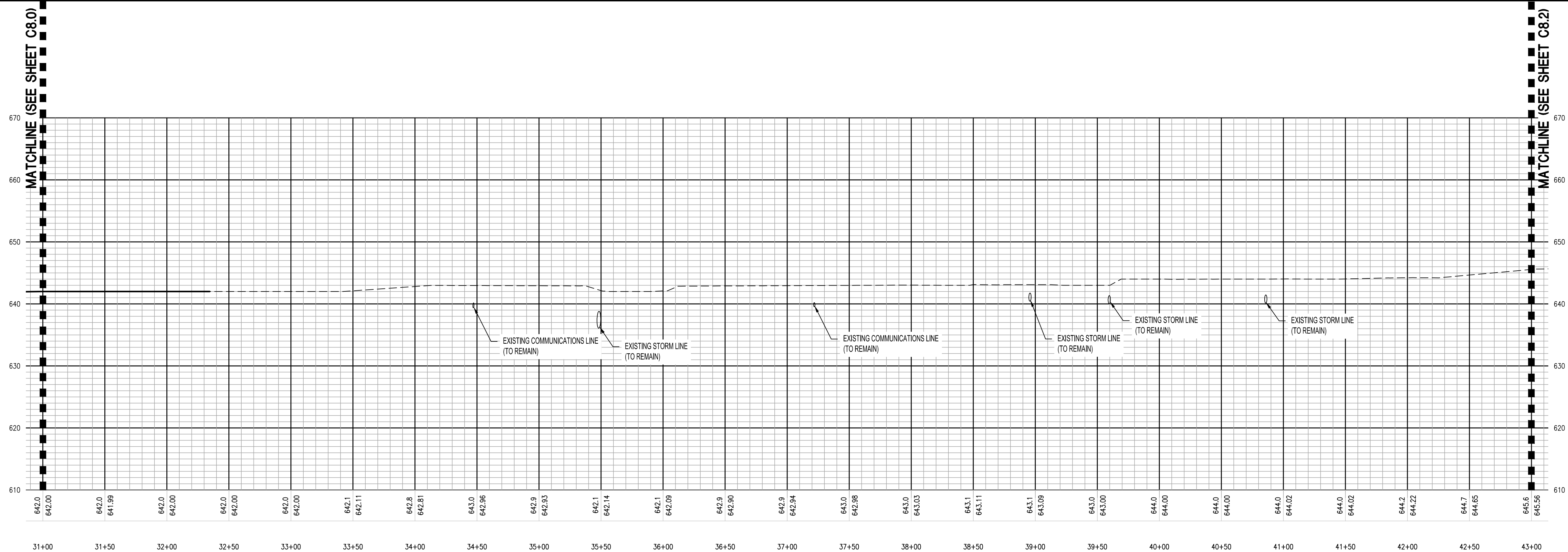
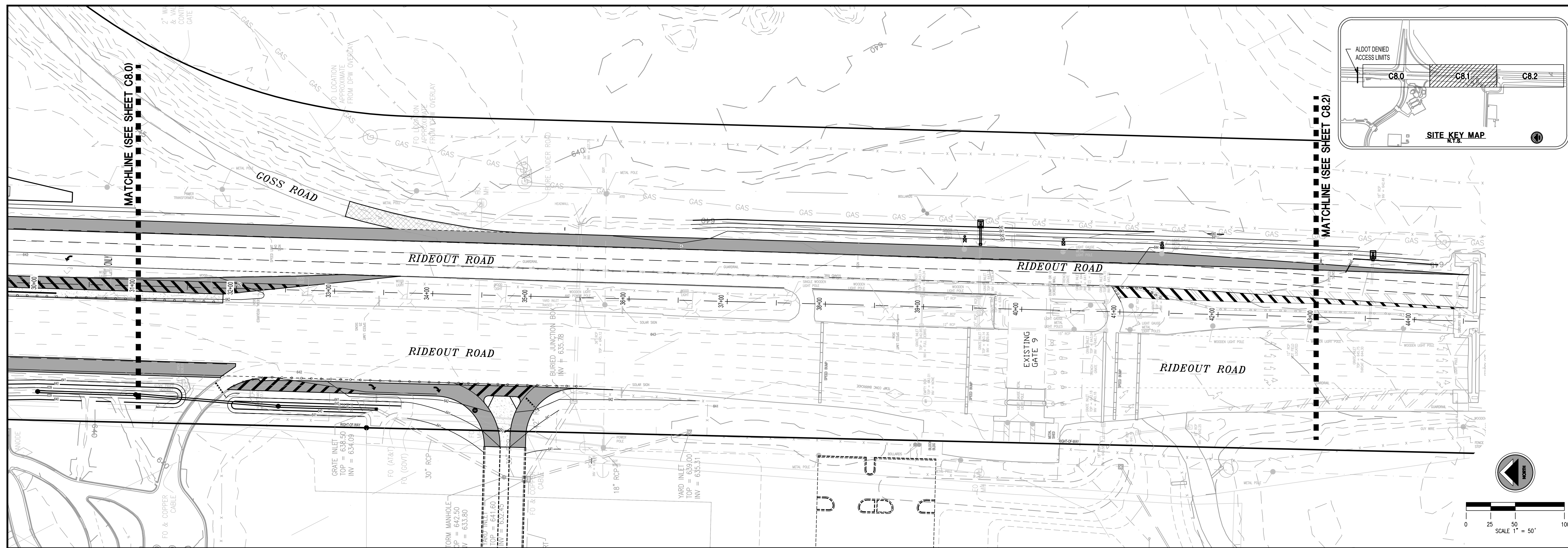
- SPECIAL NOTES:**
- SEE SHEET C1.0 FOR APPLICABLE PROJECT GENERAL NOTES.
  - SEE SHEETS C4.0 THROUGH C4.4 FOR ADDITIONAL LAYOUT INFORMATION.
  - SEE SHEETS C8.0 THROUGH C8.2 FOR RIDEOUT ROAD PLAN AND PROFILE.
  - SEE SHEETS C11.0 THROUGH C11.8 FOR RIDEOUT ROAD CROSS SECTIONS.

DESIGNED BY	DATE	NOVEMBER 14, 2011
CHECKED BY	DATE	
DRAWN BY	DATE	
REV	DATE	



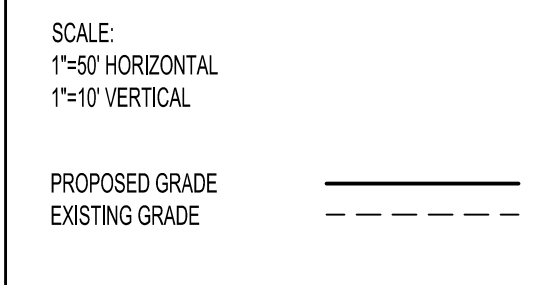






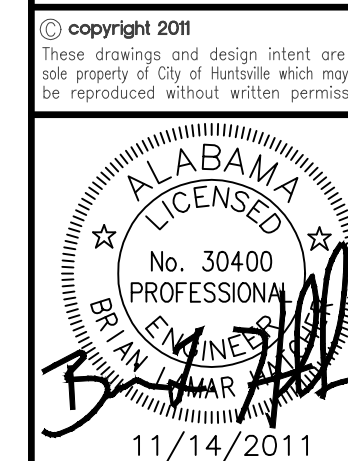
**SPECIAL NOTES:**

1. SEE SHEET C1.0 FOR APPLICABLE PROJECT GENERAL NOTES.
2. SEE SHEETS C4.0 THROUGH C4.4 FOR ADDITIONAL LAYOUT INFORMATION.
3. ALL STRIPING SHALL BE PER THE MANUAL OF UNIFORM TRAF CONTROL DEVICES (MUTCD), LATEST EDITION.



LBYP Project Number  
302-10-002A

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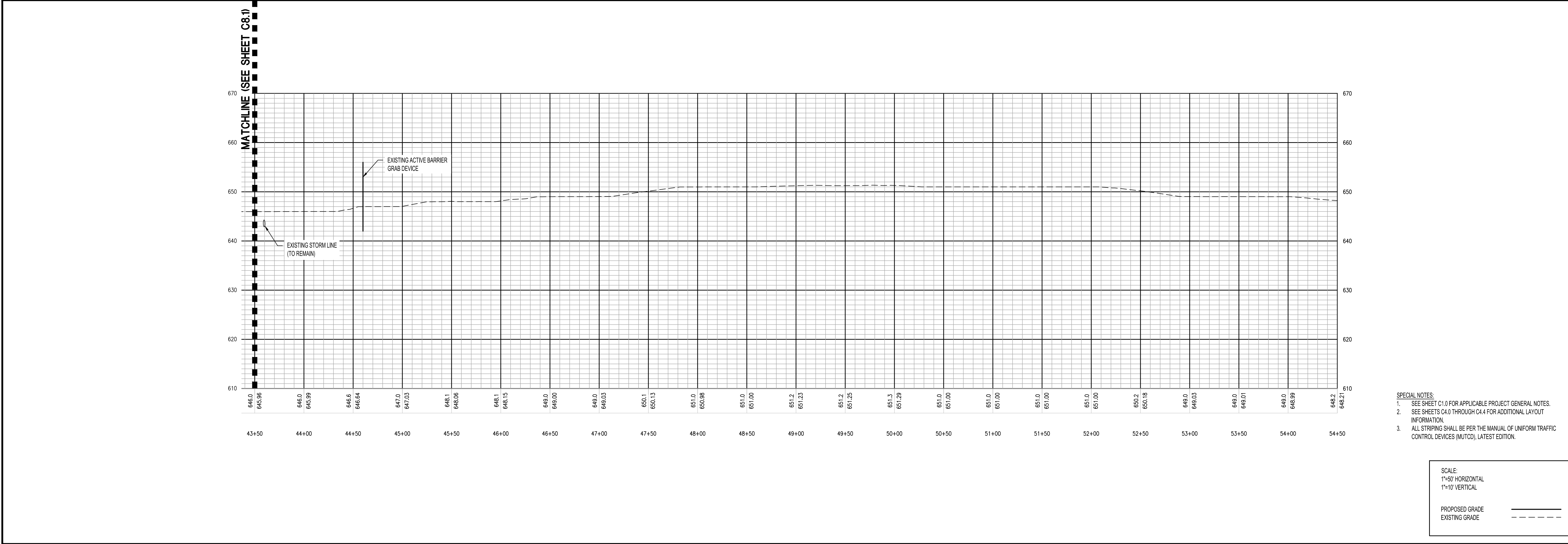
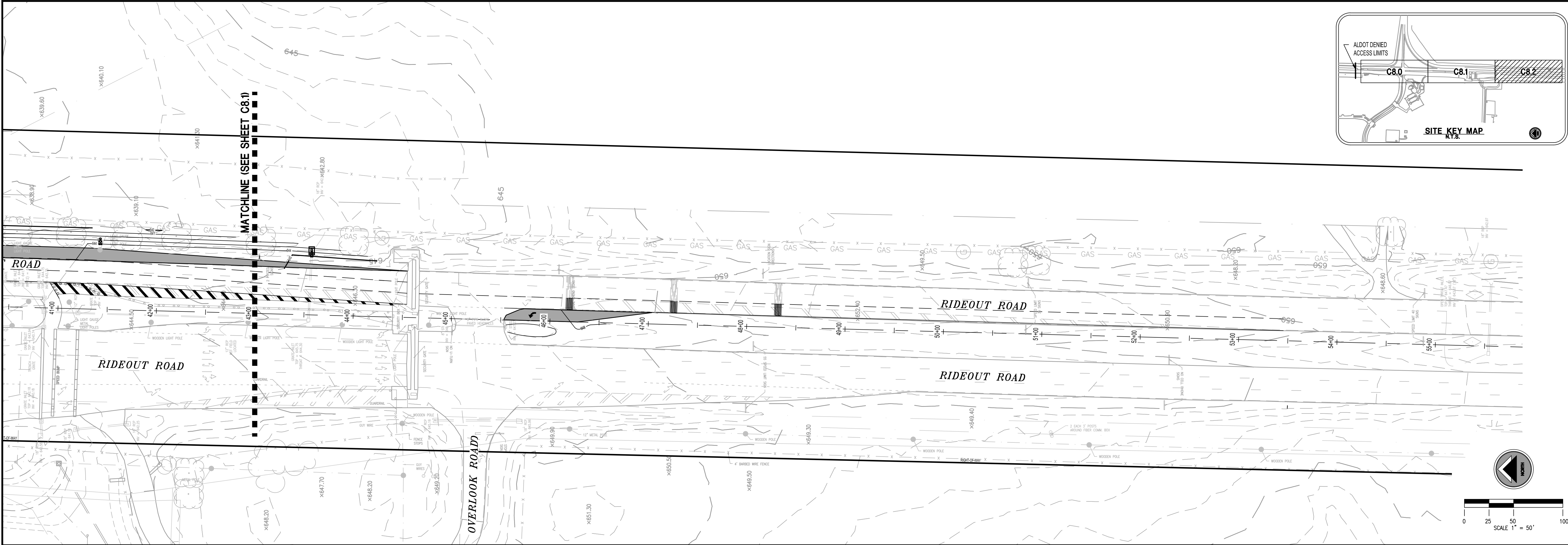


**REDSTONE GATEWAY - PACKAGE 1E**  
**RIDEOUT ROAD INTERIM IMPROVEMENTS**  
 CITY OF HUNTSVILLE

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**C8.1**





- SPECIAL NOTES:
1. SEE SHEET C1.0 FOR APPLICABLE PROJECT GENERAL NOTES.
  2. SEE SHEETS C4.0 THROUGH C4.4 FOR ADDITIONAL LAYOUT INFORMATION.
  3. ALL STRIPING SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

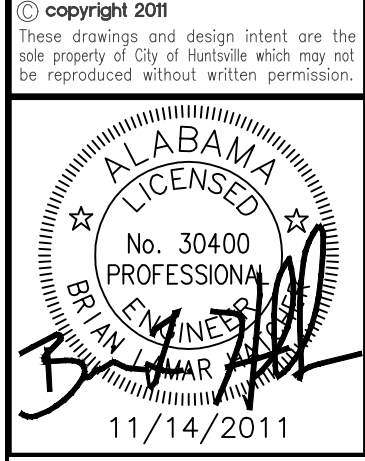
SCALE:  
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1"=10' VERTICAL

PROPOSED GRADE  
EXISTING GRADE



LBYD Project Number  
302-10-002A

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**RIDEOUT ROAD PLAN AND PROFILE ISTA 43+00 TO STA 54+50!**

**REDSTONE GATEWAY - PACKAGE 1E**

**RIDEOUT ROAD INTERIM IMPROVEMENTS**

**CITY OF HUNTSVILLE**

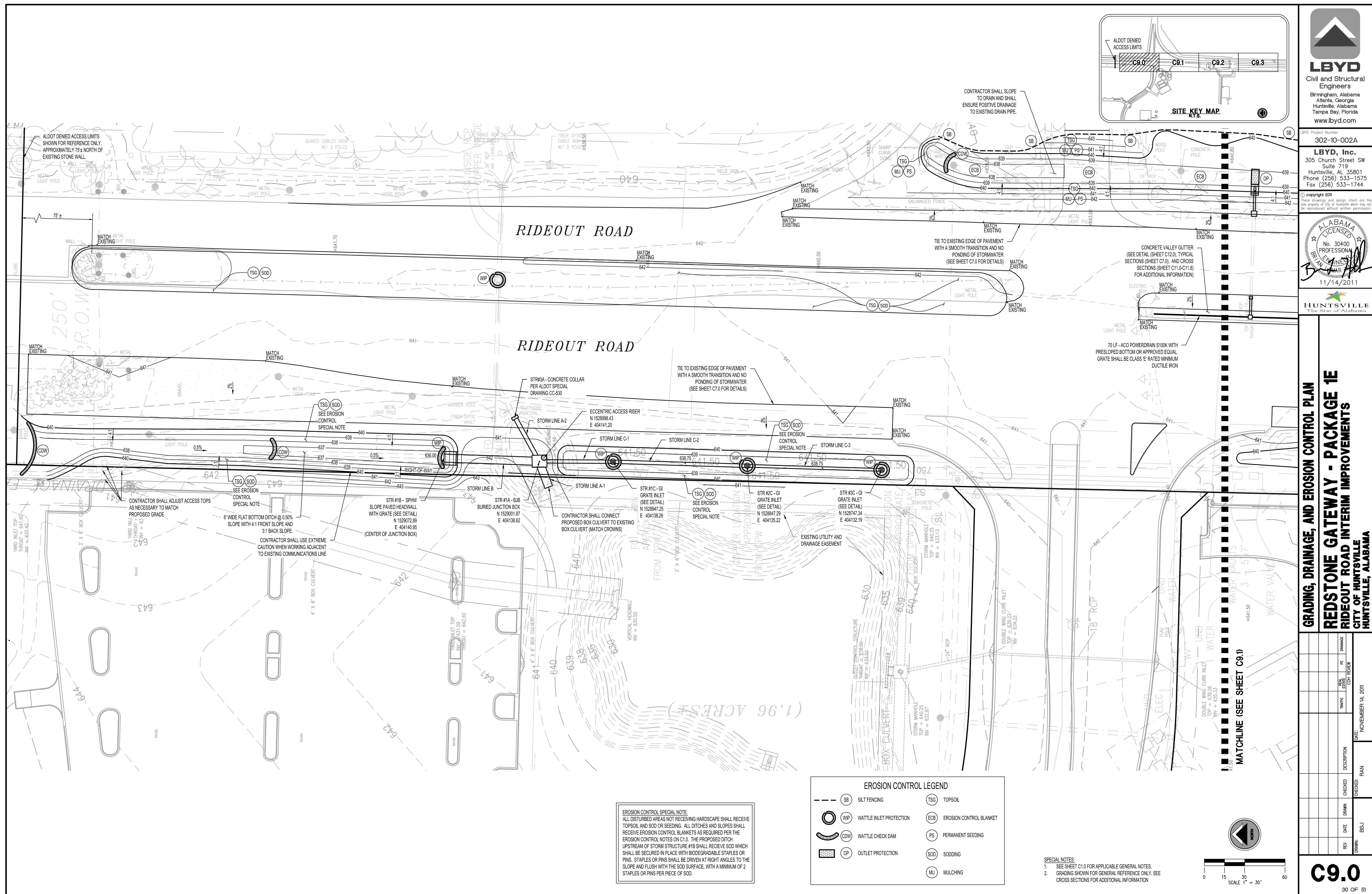
**HUNTSVILLE, ALABAMA**

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NOVEMBER 14, 2011				RAN			

**C8.2**

29 OF 51



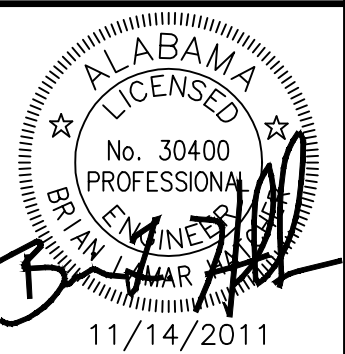
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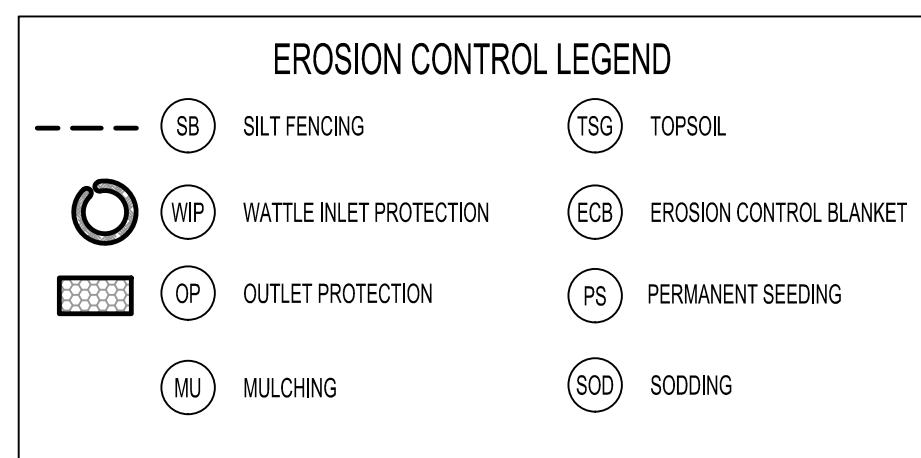
HUNTSVILLE

**GRADING, DRAINAGE, AND EROSION CONTROL PLAN**  
**REDSTONE GATEWAY - PACKAGE 1E**  
**RIDEOUT ROAD INTERIM IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**

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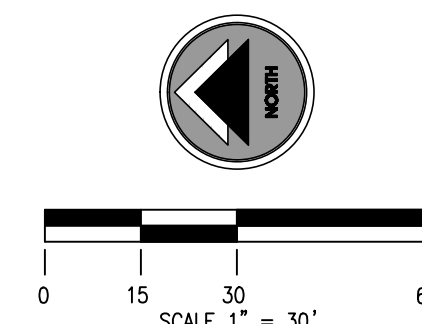
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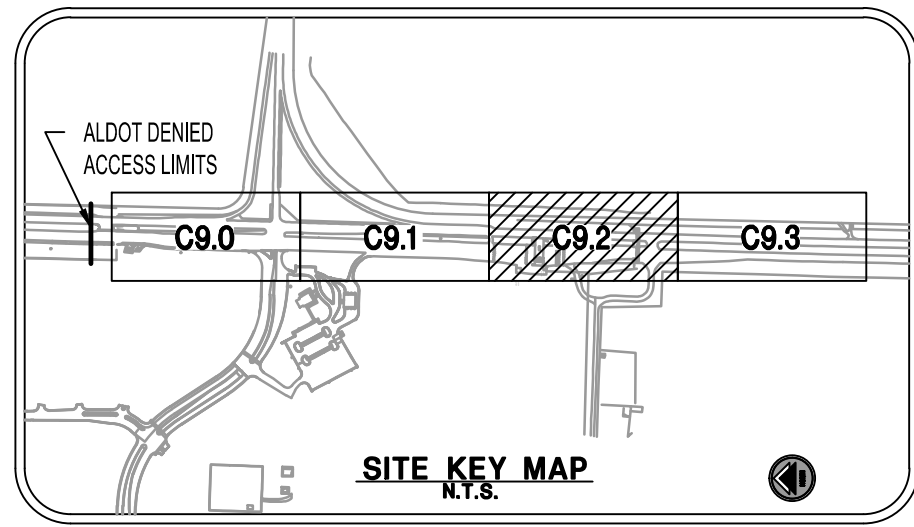
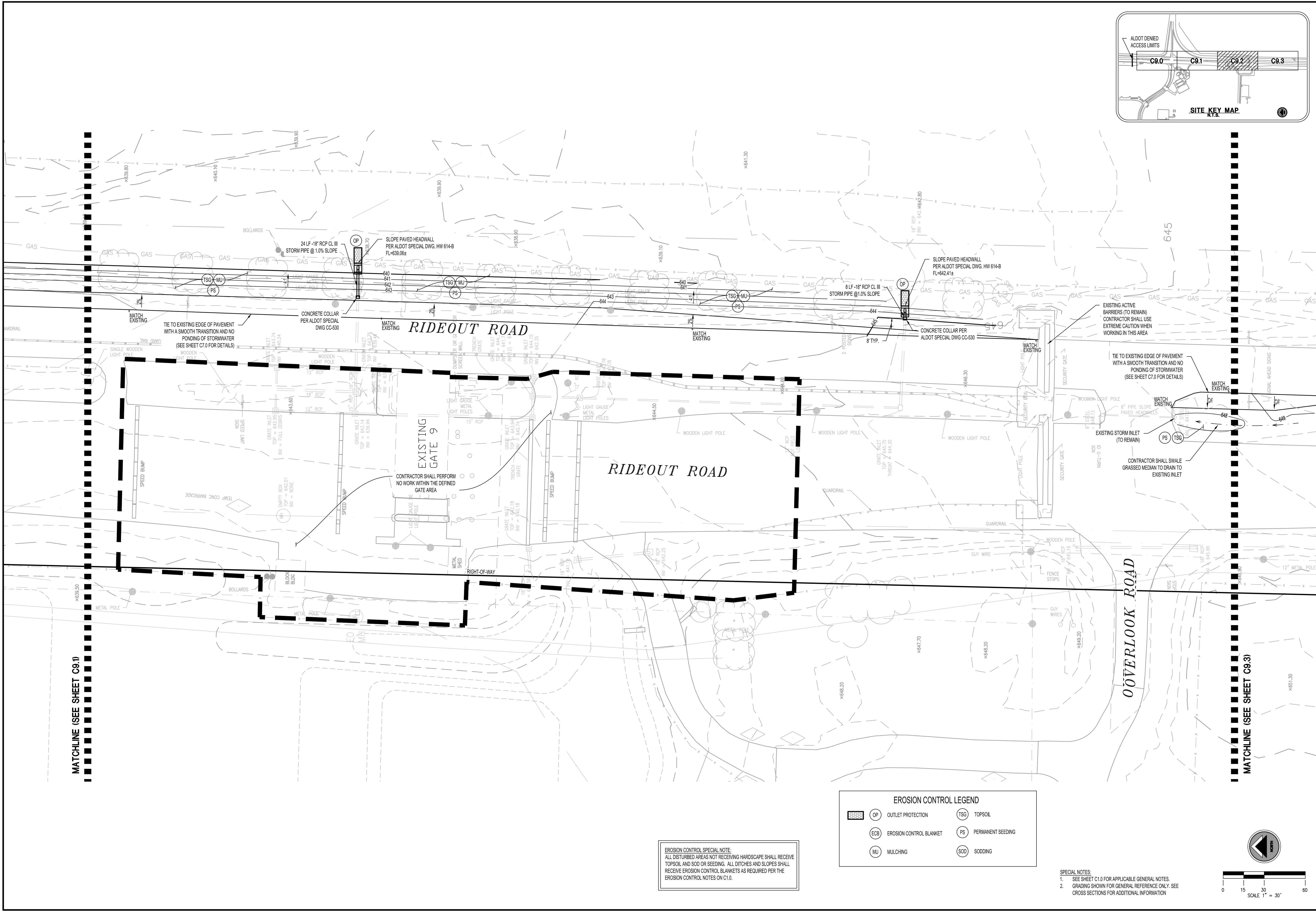
**EROSION CONTROL SPECIAL NOTE:**  
ALL DISTURBED AREAS NOT RECEIVING HARDSCAPE SHALL RECEIVE TOPSOIL AND SOD OR SEEDING. ALL DITCHES AND SLOPES SHALL RECEIVE EROSION CONTROL BLANKETS AS REQUIRED PER THE EROSION CONTROL NOTES ON C1.0.

**SPECIAL NOTES:**

1. SEE SHEET C1.0 FOR APPLICABLE GENERAL NOTES.
2. GRADING SHOWN FOR GENERAL REFERENCE ONLY. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION







**LBYP**  
Civil and Structural  
Engineers  
Birmingham, Alabama  
Atlanta, Georgia  
Huntsville, Alabama  
Tampa Bay, Florida  
www.lbyd.com

LBYP Project Number  
**302-10-002A**  
**LBYP, Inc.**  
305 Church Street SW  
Suite 719  
Huntsville, AL 35801  
Phone (256) 533-1575  
Fax (256) 533-1744

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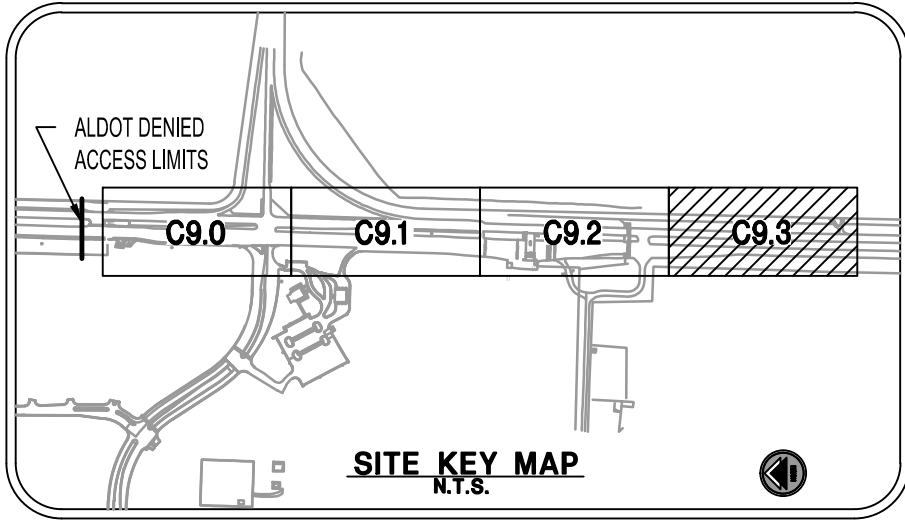
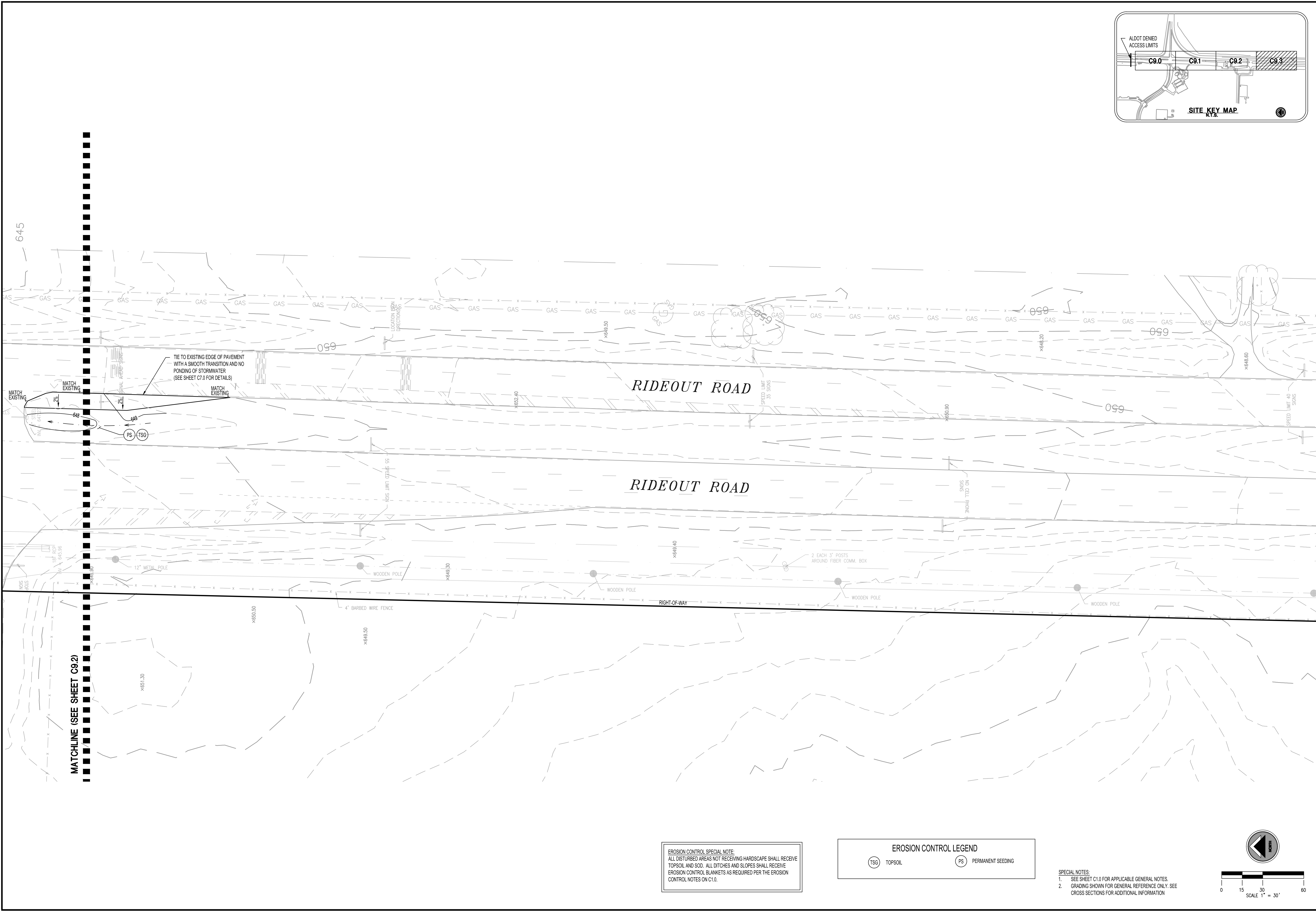
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**LICENSED**  
No. 30400  
PROFESSIONAL  
ENGINEER  
11/14/2011

**HUNTSVILLE**  
The Star of Alabama

**GRADING, DRAINAGE, AND EROSION CONTROL PLAN**  
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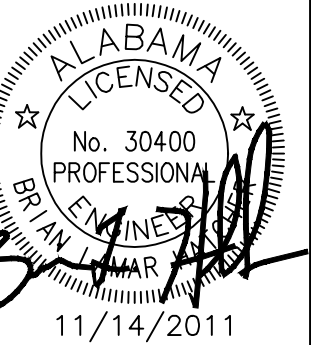
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**HUNTSVILLE, ALABAMA**

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**STORM DRAINAGE PROFILES**  
**REDSTONE GATEWAY - PACKAGE 1E**  
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**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**

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